## Fine Pavement for Queensboro Bridge

stretch of 900 feet of wood block pavement on a new type of foundstion, and after being used throughout much of the summer and a winter that was the severest possible test on a crete pavement it was inspected by a comnittee of engineers representing all the boroughs, and showed no deterioration. It is this tope of foundation which is now being installed.

boro Bridge as an automobile exit from the uniformly bad surface it has pre- AUTO MAKERS DRAW sented. Thousands of dollars have FOR SPACES AT SHOWS

City Labor Laying Surface That Will Stand
Traffic.

PROPER FOUNDATION
SOLVES OLD PROBLEM

Passed over the bridge, and that soon broke down this thin layer.

Also the transverse lines of the buckled plates did not stand up under the weight, and a deflection in some cases of as much as three-eighths of an inch was found in them. Naturally any such deviation from the line meant that the concrete soon broke up under the weight of traffic. Also it was found that the concrete combination was not heavy enough, and further-

Reinforcements Below and Timbers Laid Lengthwise Will End "Prop Ups."

By C. E. T. SCHARPS.

It looks as if the Queensboro Bridge were to have a foundation at last that will stand up under the heavy traffic that constantly rolls over this structure. More than a year ago Edward A. Byrne, chief engineer of the bureau of plants and structures, acting under the direction of Commissioner F. J. H. Kracke, laid down a trial stretch of 900 feet of weed block in the weight of traffic. Also it was found that the concrete a bloe if the weight of traffic. Also it was found that the concrete combination was not heavy enough, and further more was not properly drained so that moisture seeping down through the wood blocks could find no proper outlet and caused the pop-ups when winter weather came on.

Mr. Byrne's solution of the problem has been accomplished in two ways. First of all he has placed a reinforced angle under the transverse lines of the buckled plates, so that they are stiff and will not yield as they did before. Secondly, he has separated the mass of concrete laid in the buckled plates by longitudinal timbers averaging 12 by 3 inches. These are rivetted down to the surface of the bridge and the concrete laid in between the timbers, as shown in the illustration herewith. In setting the concrete a hole is left which leads directly to the river below the bottom of the plate. Grooves are made in this concrete, as can be seen from the pictures, so that when it rains or when moisture gathers it can readily be directly to the river below. "Z" moisture gathers it can readily be drained off to the river below. "Z" bars at regular intervals act as expansion strips for the pavement.

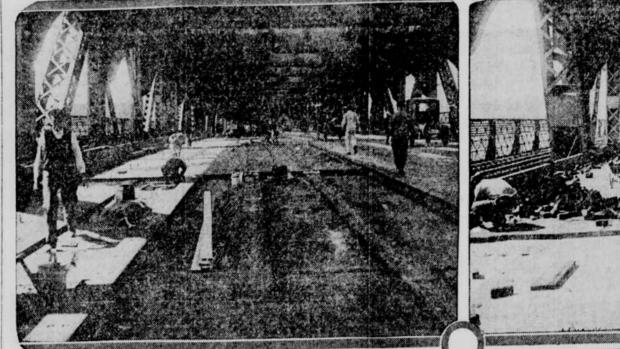
inches are 3 inches. The whole height of the top of the road surface from the boroughs, and showed no deterioration. It is this time of foundation which is now being installed.

Those who have used the Queenstate who have used the property of the property of the bottom of the buckled plate is considerably greater than it was before. It is obvious that the whole structure is more rigid and forms a better surface than the bridge has had.

New York are thoroughly familiar with the uniformly bad surface it has presented. Thousands of dellars have been speat annually on patching the been speat annual properties of Concept lain. It took due that the for the annual with the way it was laid, and then it took a little longer for the department that the work will be present operations are remark that the work will be carry out the work. The present operations are remark. The work of laying a new payment of the present operations. The present operations are remark the work will not stay within that limit. It is probable that it will cost an early \$200.000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present of \$200.0000, but as it apply in the present o

Example of Special Deccration in Auto Showroom

# How New Pavement for Queensboro Bridge Is Being Laid



This shows how the longitudinal timbers are bolted on. The buckled plates as they are before

### Notes at Random

Some years ago, probably at least ten, a man went to work in one of the large tire companies as a mechanic.

innocently the cause of serious acci-dent. Anyway, why should not the policeman, having given the automobile driver the sign that his road is clear, see to it that no pedestrians run across the path? There should be traffic reg-ulations for those on foot, too.

Croyden Flats, N. H., boasts of the Croyden Flats, N. H., boasts of the most determined Ford purchaser, probably, on record. This man, after protracted negotiations, succeeded in getting a second hand Ford in exchange for the following articles: Sixteen Yorkshire pigs, two horses, two cows, three two-year-old heifers, three calves, one horse rake, one horse hoe and one cultivator.

general manager of an association tenderal manager of an association to control the Cook patent on truck a tachments for converting touring can to trucks. This is the basic patent and is the one under which the Redde company is operating, an which the Redden company controls.

A suit entered against the Smit

### RAINIER MOTOR TRUCK MAKES ITS APPEARANCE

Stephens and H. A. L.

The shortage of freight cars, as reported by the American Railway Association, indicates that they were 14,000 cars short on September 1. The traffic committee of the chamber is endeavoring to protect the traffic supply of members by having automobile cars returned promptly to the manufacturing territory. There are now approximately trucks of an outside make for service wagons. Most of the agents turned promptly to the manufacturing territory. There are now approximately trucks of an outside make for service wagons. Most of the agents turned promptly to the manufacturing tritled for the work, and using it is no reflection on the touring car handled. Carlond shipments of automobiles for the month of September were 21,660, as gainst 18,940 for the same month last year.

MORSE IS CHALMERS

VICE-PRESIDENT NOW

E. C. Morse has resigned as sales manager of the Hudson Motor Car Company, of Detroit, to take the place

E. C. Morse has resigned as sales manager of the Hudson Motor Car Company, of Detroit, to take the place

The shortage of freight cars, as reported by the American Railway Association, there are now appear to have any way out.

Only a couple of the automobile and trucks and the stand-non-trucks as well as passenger cars use regular trucks of an outside make for service wagons. Most of the agents as well as passenger cars use regular trucks, are now in business for themselves as the Rainier Motor Corporation. A factory for the manufacture of a 1,000-pound truck is in course of a 1,000-pound truck is more truck as manufacture of the work, and using it is no reflection on the touring car handled. It is no reflection on the touring car handled trucks are now in business for themselves, are now in business for themselves, as the Rainier manufacture of a 1,000-pound truck is no course of a 1,000-pound truck is n

blocks on it supported by a thin coating of sand and cement.

The diagram showing the old and new construction of the bridge, as given here, shows where the greatest point of weakness was. The concrete was laid directly on top of the longitudinal iron stringers, as well as in the basin-like hollows of the buckled plates.

Naturally there was a thin surface of concrete above the stringers which did not stand up under the impact of heavy loads. This concrete might have done well for a limit of ten tons, but vehicles of fifteen and twenty tons

E. C. Morse has resigned as sales manager of the Hudson Motor Car Company for the Hudson Motor Car Company, of Detroit, to take the place with the Ghalmers Motor Company left to us why traffic men do not call down severely pedestrians who start across with the roadway at the Brooklyn Bridge when the policeman has held up his hard against them so as to let some car go its way to Brooklyn. If a motorist came along in his car against such a signal what a bawling out he much oversize, and therefore the men who in 1909 left the Chalmers done well for a limit of ten tons, but vehicles of fifteen and twenty tons

E. C. Morse has resigned as sales manager of the Hudson Motor Car Company left to us why traffic men do not call down severely pedestrians who start across with the roadway at the Brooklyn Bridge when the policeman has held up his hard against them so as to let some car go on its way to Brooklyn. If a motorist came along in his car against such a signal what a bawling out he would get! It is dangerous in the extreme for pedestrians to ignore the world of the chalmers of the roadway at the Brooklyn Bridge when the policeman has held up his send against them so as to let some car go on its way to Brooklyn. If a motorist came along in his car against such a signal what a bawling out he would get! It is dangerous in the extreme for pedestrians to just the roadway at the Brooklyn Bridge when the policeman has held up his near against them so as to let some car go on its way to

### Trade News and Notes

G. Franklin Bailey has been made territorial end of the business in the ELECTRIC CARS ON general manager of an association to metropolitan district and has a large control the Cook patent on truck attachments for converting touring cars | The Pennsylvania Rubber Company into trucks. This is the basic patent, announces a new reduced schedule of and is the one under which the Redden prices on all tires which went into effect on October 1. Motor Truck Company is operating, and

A suit entered against the Smith Form-A-Truck Company, of Chicago, to establish the validity and scope of the patent has been settled by the Smith ompany agreeing to take out a license and to pay royalties on all trucks made.

W. F. Sternberg, who successfully disposed of the used cars for the Chal-mers branch before it became an agenmers branch before it became an agency, is now sales manager for Colonial motors, the Metropolitan representatives of the Liberty car. In making this appointment, John F. Plummer, president of Colonial Motors, did approximately what C. T. Silver did in appointing Rodney K. Haines, manager of his used car department, as sales manager in charge of the new car department of the Chalmers and Dort agency.

On moving to new quarters on Broadway, at Fifty-third Street, formerly occupied by the Hupmobile, the Crow Motor Sales Company has engaged the, Baron Dewitz in connection with the sales campaign for Crow Elkhart cars and the Hollier Eight. The Crow Motor Sales Company is special-izing the Dewitz Submarine Auto Body, described as a "Land Submarine."

A new service and parts department, at 245 to 249 West Fifty-fifth Street, has been opened by the King selling branch here. The service department is in charge of A. T. Hiscox.

Association was made last wedness, the thickness of the treat method of curing.

FORD JOKERS KEEP ings-on-the-Hudson, and return. The forty-seven cars participating were exforty-seven cars participating were ex-

run" of the New York Electric Vehicle Association was made last Wednesday

clusively electrics. The majority of

Laying the wood block on the new

MAKERS TO ADJUST

foundation. Note the grooves in

the concrete leading to the drain

HEADLIGHTS' RIGHT

Automobile makers are now turn ing their attention to the matter of

glaring headlights. The National

Automobile Chamber of Commerce

last week, discussing the use of

lights on the road, came to an agreement that makers should arrange

such lights so that the beams will show not more than forty-two inches above the ground at a distance of

Many states have legislated against the use of glaring headlights, and it is only a question of a short time

when no community will permit their use. Therefore the makers

A SOCIABILITY RUN

are merely taking a step in time.

seventy-five feet.

### THE HARKNESS RACE OCTOBER 28

100-Mile Event at Sheeps. head Bay for \$10,000 Purse.

LAP PRIZES OFFERED AFTER FIRST 10 MILES

Twenty-two Entries Now Assured - Shorter Events on Card.

The Harkness Trophy race at 109 miles and a fifty-mile special event will make up the card for an afternoon of automobile racing at the Sheeps head Bay Speedway on October 28. For the 100-mile race a purse of \$10, 000 has been hung up by the donor of 000 has been hung up by the donor of the trophy, Harry S. Harkness. In addition, there are \$2,540 in bonuses of fered as lap prizes. These are to be split 70-30 between the driver and mechanic of the cars leading at the designated points.

The crews of the cars leading at 10, 20, 30, 40, 60, 70, 80 and 90 miles will split \$100. The leading car at the half distance, fifty miles, will get \$259. The leaders at all laps from ten miles to winch, except those given above, will

leaders at all laps from ten miles to minety, except those given above, will take down \$50 each time. With such inducements offered the race should be a fast one. The prize money offered will go: First, \$4,000; second, \$2,500; third, \$1,500; fourth, \$1,000; ifth, \$500, and sixth, \$400.

Immediately after the main event the fifty-mile special for non-winner in the Harkness race will be run. A prize of \$2,500 is offered for this event About thirty drivers have significant their willingness to start in the Harkness race.

ness race.

By winning the Astor Cup race
Johnny Aitken now leads for the title of champion motor car driver of America. He has 2,520 points. Days Resta, who did not finish in the Asta-Cup, has 2,400 points. Eddie Ricker-bacher is third with 1,990 points. Ralph De Palma is fourth with 1,791 points.

Raiph De Palma is fourth with Life points.

The title carries with it the Beech trophy and about \$5,000 in cash, so it is worth while fighting for.

Two of the Goodyear Cord time which Aitken had on his Peugeot in the Astor Cup race, when he covered the 250 miles at the rate of 104 2-3 miles an hour, were the ones which helped him to win the 300-mile sweepstakes at Cincinnati on Labor Day, at the dedication of the Sharonville Speedway.

The Goodyear Company has been equipping racing cars with tires only a few months. The carcass of the tire used on the racetrack is standard-made up in the regular way—and is the same carcass in Goodyear Cords for pleasure cars. The difference is in the thickness of the tread and the method of curing.

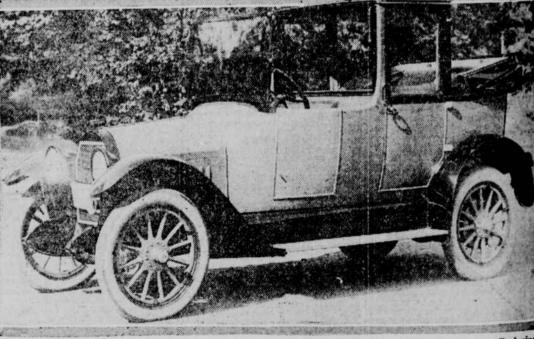
### STENOGRAPHERS BUSY

Burr & Co., body builders, has joined Sam W. Menefee as a member of the sales department of the Detroit Electric Car Co., New York.

The Hurlburt Motor Truck Company announces the receipt of an order for some hundreds of thousands of dollars' worth of trucks for export. A large part of this order is for the seven
Miss Dolores Duncan, George Leland of the majority of the cars were driven by their women owners.

That humorist who seems to be devoting his life's work to originating and circulating stories as to the Ferd fair were Dr. and Mrs. D. D. McAuliff. This is very strikingly demonstrated by the truckloads of mail received by the truckloads of mail received these autumn days by the Ford Motor Company. Letters by the hundreds and thousands are coming from all parts of the world, asking for con-

### Closed Cars Making Appearance on Auto Row



E. J. Kibora has been made general sales manager of the Liberty Motor Company, and became sales manager of the Liberty Motor Company, and became sales manager of the from the construction of the P. d. O. Flough Company, In 1912 Kibora left the farm implement business to become that company. In 1912 Kibora left the farm implement business to become that company, and became sales manager of the company. From Mitchell-Leves's Motor Company, From Mitchell-Leves's Motor Company, From this he went to Chicago to become branch manager of the General Motors. Truck Company, Truck Company, Truck Company, Truck Company, Truck Company, Truck Company, Truck Company for the General Motors. Truck Company for the General Motors Company, Chicago to become branch and in that capacity wholesale branch, and in that capacity wholesale branch, and in that capacity wholesale branch and in that capacity wholesale branch, and in the capacity wholesale branch, and in

of Detroit, will be seen for the first time at the New York show in January.

A new branch of the Times Square Auto Supply Company has been opened at 80 Nassau Street, in the financial district, to sell automobile accessories and supplies.

George S. Morrow, president of the rew Saxon Motor Corporation of New York, has appointed William H. Crowley has had a good many years' experience in handling the



This is a part of the salesroom of C. T. Silver, Inc., as arranged for a special view of Chalmers and Dort cars. To the left is a prougham mounted on a Chalmers chassis, which was the marked feature. It is in French gray and is marked by a new design nickeled radiator. The exhibit also included a five-passenger Dort touring, a special color and equipped Dort touring, three Chalmers closed cars interiors by Lady Duff Cordon: a special Chalmers roadster, a special Chalmers touring, with Victoria top: a special Chalmers Cloverleaf, a special Chalmers touring and a special Peerless, with Victoria top.